V Series Slim
SERVICE MANUAL

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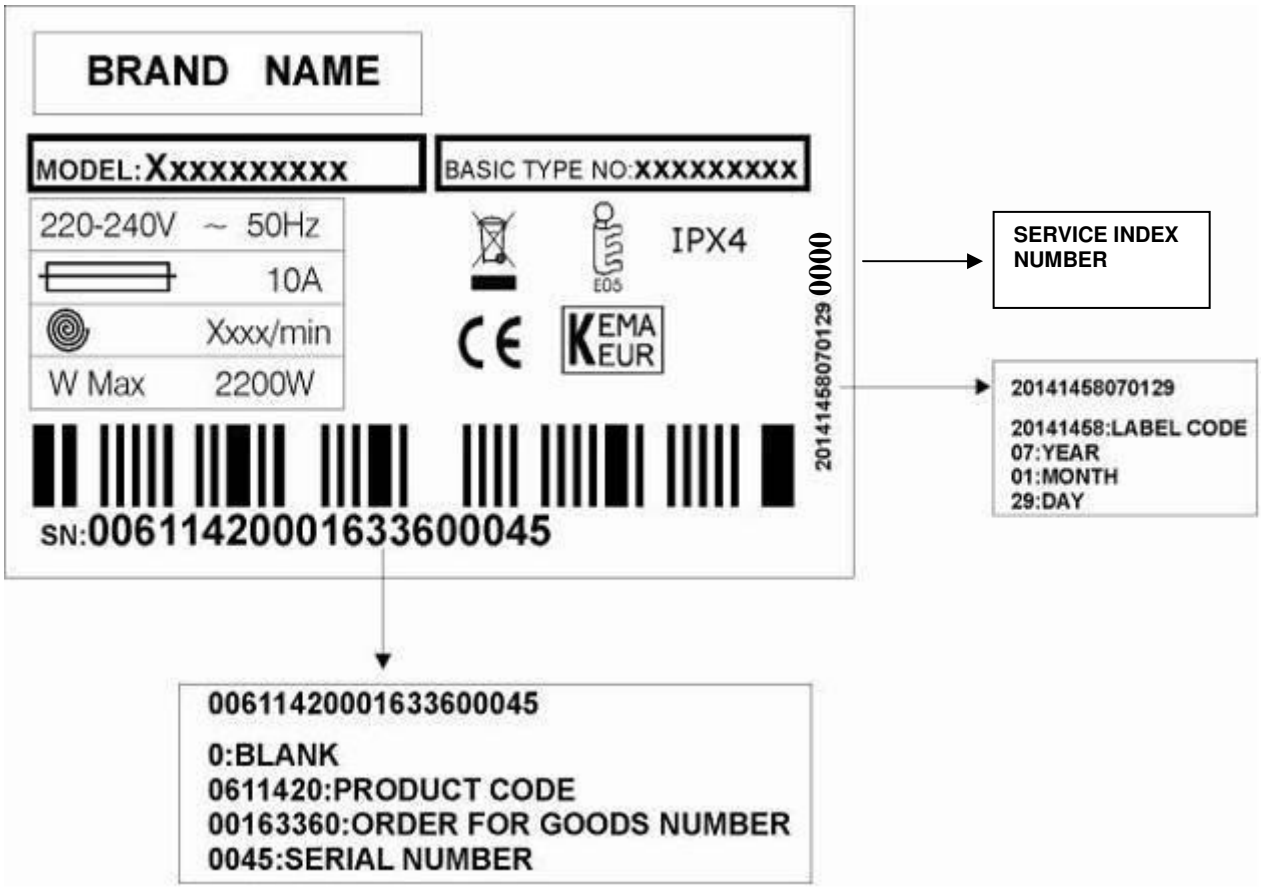
1. Specifications

1.1. Product Specifications

		40 lt
Product Type		Front Loader
Capacity		5 kg
Max Spin Speed (r/min)		400 – 500 – 600 – 800 – 1000 – 1200 - 1400
Energy Consumption		A
Water Consumption		43 L/cycle
Control Panel		LED display
Wash Programs		15 settings
Dimensions	Height	84,5 cm
	Width	59,7 cm
	Depth	41,6 cm
Other Features		Child Lock
		Delay Time

1.2. Name Plate

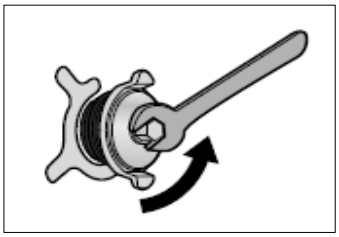


2. Installation Instructions

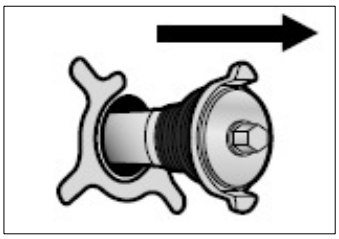
2.1. Moving and Installing

2.1.1. Removal of Transportation Screw

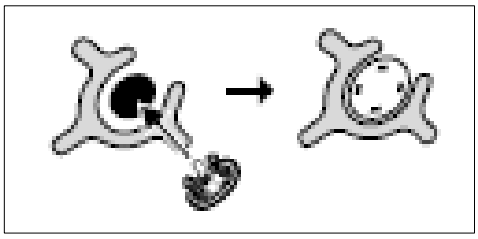
1. Transportation screws, which are located at the back side of the machine, must be removed before running the machine.
2. Loosen the screws by turning them anticlockwise with a suitable spanner.



3. Pull out the screws and rubber washers.



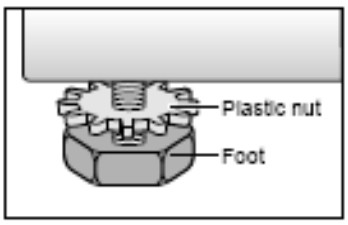
4. The holes where the transport screws have been removed should be covered with the plastic transport caps found in the accessories bag.



5. The transportation screws that have been removed from the machine must be re-used in any future transporting of the machine.

2.1.2. Foot Adjustment

1. Do not install machine on rugs or similar surfaces.
2. For machine to work silently and without any vibration, it should be installed on a flat, non-slippery firm surface. Any suspended floor must be suitably strengthened.
3. You can adjust the level of machine using its feet.
4. First, loosen the plastic adjustment nut away from the cabinet base.
5. Change the level by adjusting the feet upwards or downwards.
6. After level has been reached, tighten the plastic adjustment nut again by rotating it upwards against the base of the cabinet.
7. Never put cartons, wooden blocks or similar materials under the machine to balance irregularities of the floor.



2.1.3. Electrical Connection

1. Washing machine requires a 50Hz supply of 220-240Volts.
2. A special earthed plug has been attached to the supply cord of washing machine. This plug must be fitted to an earthed socket. The fuse value fitted to this plug should be 13 amps. If you have any doubts about electrical supply, consult a qualified electrician.

THIS APPLIANCE MUST BE EARTHED.
Insert the machine's plug to a grounded socket which you can easily reach.

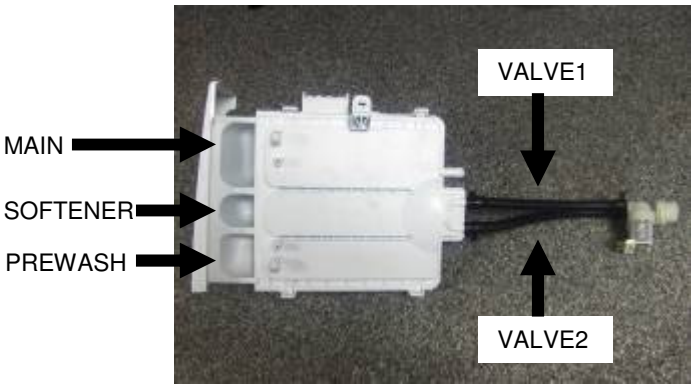
2.1.4. Water Supply Connection

1. Washing machine is supplied with a single (cold) water inlet.
2. To prevent leakage from the connection joints, a rubber washer is included in the hose packing. Fit this washer at the end of water inlet hose on the tap side.
3. Connect the hose to the water inlet valve. Tighten the plastic connector by hand. Please call a qualified plumber if you are unsure about this.
4. Water pressure of 0,1-1 MPa from tap will enable machine to work more efficiently.(0,1 MPa pressure means water flow of more than 8 litres in 1 minute from a fully opened tap)
5. After connection is complete, check for leakage by turning on tap completely.
6. Make sure that water inlet hoses can not become folded, damaged, stretched or crushed when the washing machine is in its final position.
7. Mount the water inlet hose to a ¾" threaded water tap.

2.1.5. Drain Connection

1. Make sure that water inlet hoses are not folded, twisted, crushed or stretched.
2. The drain hose should be mounted at a minimum height of 60 cm, and a maximum height of 100 cm from the floor.
3. The end of the drain hose can be connected directly to a drainage stand-pipe or alternatively to a specific connection point designed for that purpose on the waste outlet of a sink unit.
4. Do not extend the drain hose or guarantee will be invalidated.

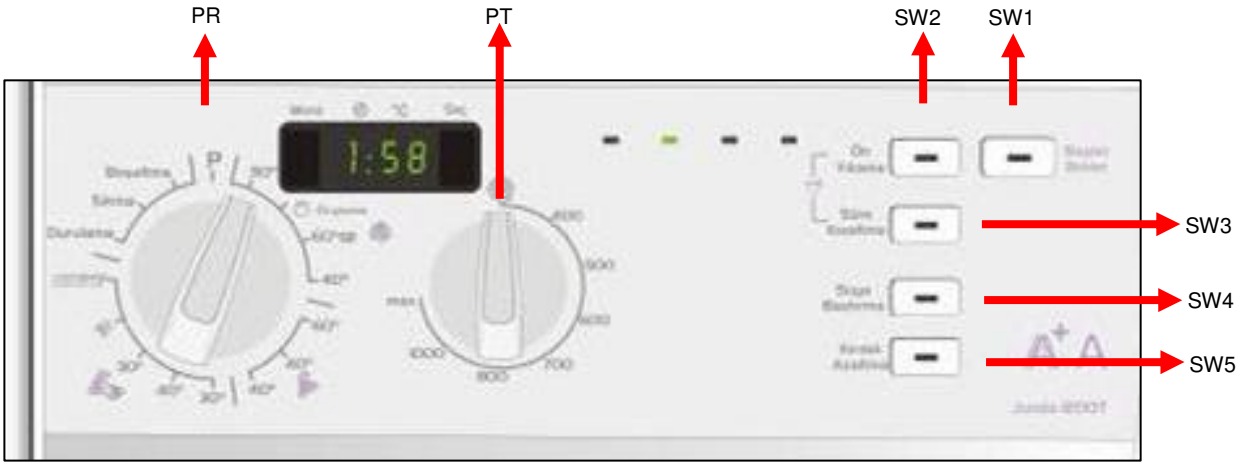
2.2. Detergent Box Group



PREWASH = WATER ENTRY VALVE 1
MAIN = WATER ENTRY VALVE 2
SOFTENER = WATER ENTRY VALVE 1 + VALVE 2

3. Operating Instructions

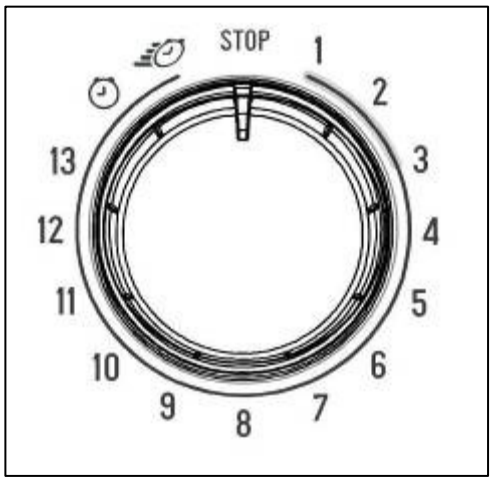
3.1. LCD Screen, Function Buttons & Knobs



PR	Program selector 16 programs with ON/OFF.
SW1	Switch 1, Start / Pause
SW2	Switch 2
SW3	Switch 3
SW4	Switch 4
SW5	Switch 5
PT	PT speed potentiometer

3.2. Program List

Knob Position	Program
Pos1	COTTON90℃
Pos2	COTTON 60℃ PW
Pos3	COTTON 60℃
Pos4	DELICATE COLORS
Pos5	COTTON 40℃
Pos6	SYNTHETICS 60℃
Pos7	CURTAIN WASH
Pos8	SYNTHETICS 40℃
Pos9	Hand Wash
Pos10	MIX WASH
Pos11	HAND WASH 30℃
Pos12	SILK
Pos13	WOOL COLD
Pos14	QUICK WASH
Pos15	15 ℃ Wash
Pos16	STOP



3.3. Program Details

Program Details for 40 lt

	Total Water Consumption (lt)	Total time (min)	Max. T(℃)	Max.energy(kwh)
COTTON90℃	61.6lt	125min	83℃	1.02kwh
COTTON 60℃ PW	56,6lt	137,2min	51℃	1.02kwh
COTTON 60℃	40,8lt	146min	55'c	0,87kwh
DELICATE COLORS	51lt	95min	42℃	0.49kwh
COTTON 40℃	52.6lt	125min	41℃	0.66kwh
SYNTHETICS 60℃	30lt	85min	56℃	0.74kwh
CURTAIN WASH	51.8lt	120min	41℃	0.87kwh
SYNTHETICS 40℃	25,8lt	78min	43℃	0.44kwh
MIX WASH	25.6lt	68min	32℃	0.28kwh
WOOL 40℃	52.4lt	57min	41℃	0.40kwh
HAND WASH 30℃	50.1lt	60min	32℃	0.30kwh
SILK	49lt	54min	31℃	0.25kwh
WOOL COLD	52lt	54min	*	0.02kwh
QUICK WASH	20.1lt	23min	25℃	0.14kwh

* : Programme duration ,Energy and Water Consumption are given for the cycles for programmes are started in set temperature.

WIT : Water Inlet Temperature

\- : Programmes do not take water

- Temperature may vary depending on the heating time
- Durations may vary according to wash load (weight and type), tap water and ambient temperature and selected extra functions.

3.5. Child Lock

Activation

1. Press the 1. and 2. function button for 4-5 seconds.

2. The Chihl Lock Symbol is appear on the lcd display.

Deactivation

1. Press the 1. and 2. function button for 4-5 seconds.

2. The Child Lock Symbol is deleted on the lcd display.

Activation Indication

1. The symbol (I6) makes fast blink for indication and is then fix on.

Child lock during the programme

1. Machine does not respond to any pressing of buttons or changing position of program knob but option icon makes fast blink to evoke the user.

In end condition

1. When cycle is finished child lock is automatically deactivated.

Deactivation Indication

1. Option icon makes fast blink and is then off.

In Error Mode

1. Child lock will be automatically deactivated when error is detected except NTC (E05) and Voltage (E09) errors.

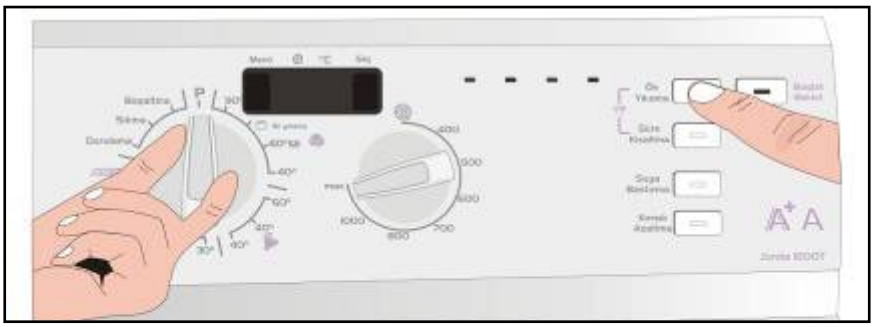
When E05 and E09 is detected, the child lock will be deactivated at the end of the program or the user will be able to deactivate it. On other hand, if the user brings the programme knob to zero and then any position during these two error modes, firstly it will show child lock active indication and then the error indication and it will continue the cycle.

4. Test Mode

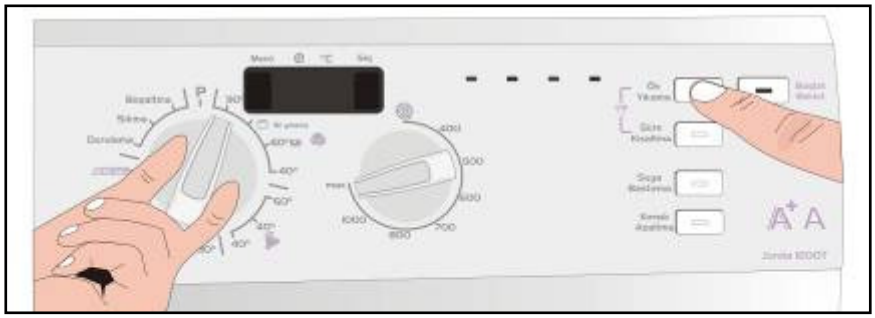
4.1. Autotest

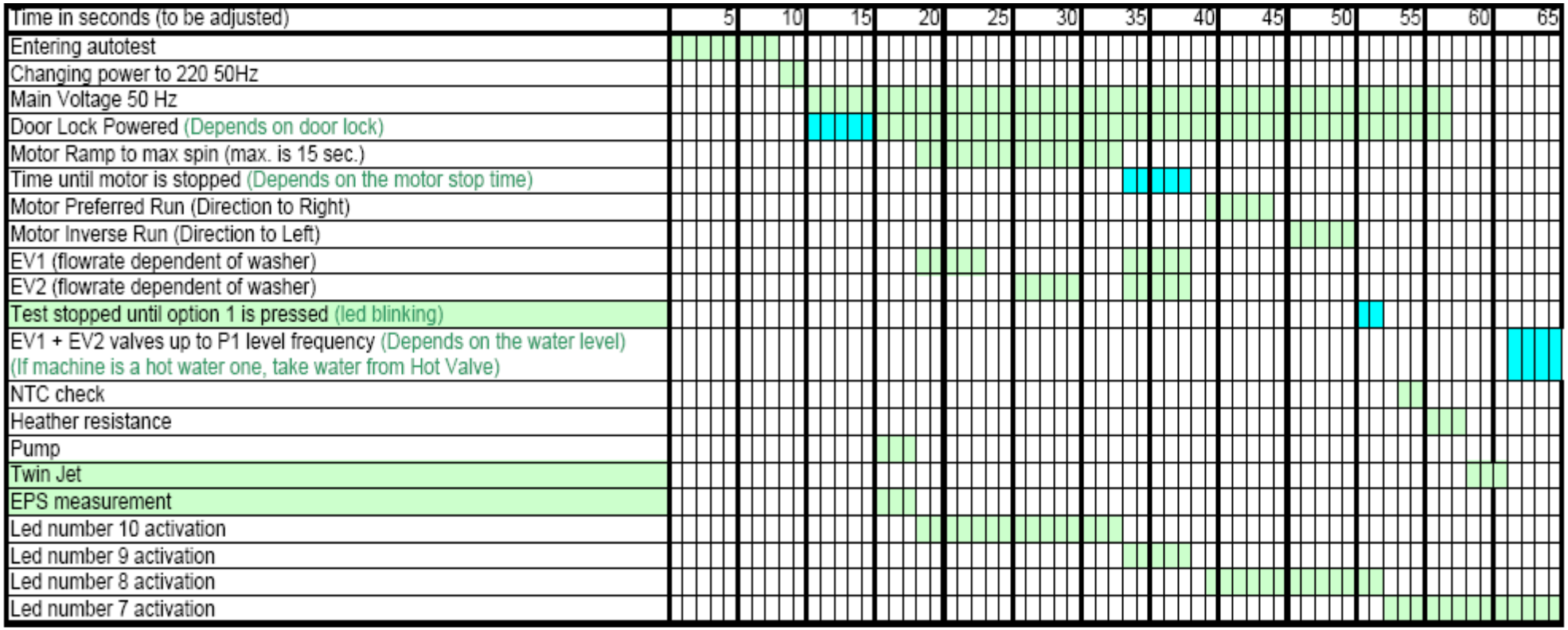
<u> This test is for quick checking of the product. You can not see the failure codes.</u>*

1. Press the 1st Function button when the Program knob is at the STOP position.



2. While pressing 1st Fuction button. Change the position of the knob to 1.





Ntc detection : Software will detect NTC's resistance value and will check if the temperature is between 5°C < Temperature detected < 40°C. If it is inside the range, heating step will be done.
If temperature value is outside the range, then it means NTC is detecting the temperature in a wrong way and heating step will be skipped.

EPS measurement: It checks the EPS and if it OK, it continues the autotest; if it is Not OK then cancel the Autotest and go to the selection mode. Also if any frequency can not be detected, then it means there is problem with connection or EPS, so it gives E10 which is EPS error and cancels the autotest & goes to the selection mode.

5. Service Mode

5.1. Service Autotest

End users can only see E1-E2-E3-E4. During service autotest, other failures can be seen.

1. Set program knob at position 3 after selection spin speed to max.
2. While pressing the T °C (Sw2) button, keeping T °C (Sw2) button pushed, turn program knob to position 2, release T °C (Sw2) button change position of the third to second, and remove the T °C button within 1 second.

	Selector Position 1	Selector Position 2	Selector Position 3
	Result	Result	Result
	HEATER ON	PUMP ON	TEST PROGRAM ON
Comments :	When entering in service test, door will be locked.		Test is over Door will be unlocked, machine will go to ENS state.

The test steps are as below ;

Step 1 :

Selector Position 1 will be “HEATER ON”

Before heating it should take water till first level frequency then start heating.

Heater will be on max. 8 minutes after this 8 minutes if the temp. doesn’t change more than 2 ° C then it will give NTC failure. (E05).

Or if the NTC connection is broken then it should give again E05 NTC failure.

At the end of heating, “SAU” visualization should make slow blink to indicate that the step is over.

Note : If user changes the selector position, machine will do what is defined for the new selected position.

Step 2 :

Selector Position 2 will be “PUMP ON”

Temperature will be measured, if it is higher than 50 ° C, it should take 60 sec. cooling water, and then make “Drain + 5 sec.”

At the end of pump activation, “SAU” visualization should make slow blink to indicate that the step is over.

Step 3 :

Selector Position 3 will be 15 minutes test program.

So machine will make exactly the same algorithm of 15 minutes test program.

At the end of 15 minutes test program “END” is visualized and door is unlocked. During test pressing other buttons makes no change.

LD1 Start / Pause button Led → ON
LD6 Wash Phase Led → Off
LD7 Rinse Phase Led → Off
LD8 Spin Phase Led → Off
LD9 Door Lock Led → When the door is unlocked it will be off
LD2, LD3, LD4 → Off
Display → “END”

5.2. Failure Codes

Error Indication	Error Number	Indication For User	Indication For Service
		Yes/No	Yes/No
Door is not locked	E01	Yes	Yes
Door is unlocked during programme	E01	Yes	Yes
Lack of water	E02	Yes	Yes
Pump failure	E03	Yes	Yes
Overflow	E04	Yes	Yes
NTC or Heater Failure	E05	No	Yes
Motor Failure - 1 (Tachometer open-short circuit or motor connector is disconnected)	E06	No	Yes
Motor Failure - 2 (triac short circuit)	E08	No	Yes
Electronic Pressure Sensor	E10	No	Yes

6. Troubleshooting Guide

All repairs which must be done on the machine should be done by authorized agents only. When a repair is required for machine or you are unable to eliminate the failure with the help of the information given below:

- Unplug the machine.
- Close the water tap.

FAILURE	PROBABLE CAUSE	METHODS OF ELIMINATION
Machine does not operate.	It is unplugged.	Insert the plug into the socket.
	Fuse is defective.	Change fuse.
	Start / Pause button has not been pressed.	Press the start / pause button.
	The program knob is in 0 (off) status.	Bring the program knob on the desired status.
	The door is not shut properly.	Shut the door properly. You should hear the click.
	Child lock is active.	See page 9.
Machine does not receive water.	Water tap is closed.	Open water tap.
	The water inlet hose may be bent.	Check the water inlet hose.
	The water inlet hose is obstructed.	Clean the filters of water inlet hose.
	The water inlet filter is obstructed.	Clean the valve inlet filters.
	The door is not shut properly.	Shut the door properly. You should hear the click.
Machine is not draining water.	The drain hose is obstructed or bent.	Check the drain hose.
	The pump filter is obstructed.	Clean the pump filter.
	The clothes are not placed inside the machine in a well-balanced manner.	Spread the clothes inside the machine in an orderly and well-balanced manner.
Machine is vibrating.	The feet of machine are not adjusted.	Adjust the feet.
	Transportation screws are not removed.	Remove transportation screws.
	There is a small amount of clothes in the device.	It does not prevent operation of the machine.
	Excessive amount of clothes are filled in the machine or the clothes are not placed in a well-balanced manner.	Do not exceed the recommended quantity of clothes and spared clothes in the machine in a well-balanced manner.

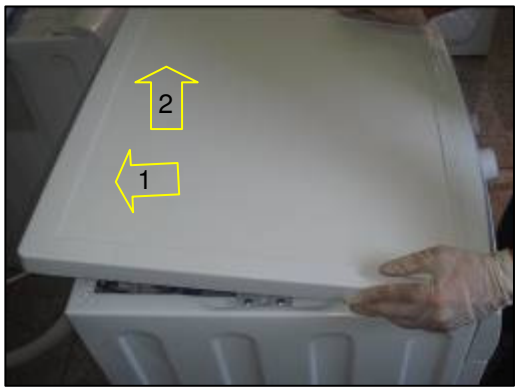
FAILURE	PROBABLE CAUSE	METHODS OF ELIMINATION
Excessive foam in the detergent drawer	Too much detergent has been used.	Press the start/pause button. In order to stop the foam, dilute one table-spoon of softener in half liter of water and pour it in the detergent drawer. Press the start/pause button after 5-10 minutes. Arrange the amount of the detergent properly in the next washing process.
	Wrong detergent has been used.	Use only the detergents produced for full automatic machines.
The washing result is bad.	Laundry too dirty for the program you have selected.	Select a suitable program.
	The amount of detergent used is not sufficient.	Use more detergent according to the detergent.
The washing result is not good.	Clothes exceeding the maximum capacity has been filled in machine.	Put the clothes in machine in a manner not to exceed its maximum capacity.
	Water may be hard.	Use the amount of detergent according to the declaration of the detergent producer.
	Distribution of the clothes in machine is not well-balanced.	Spread the clothes inside the machine in an orderly and well-balanced manner.
The water is seen in the drum during washing.	No failure. The water is at the lower part of the drum.	
There are residues of detergent on the clothes.	The pieces of some detergents which do not dissolve in water may stick to clothes as white stains.	By calibrating machine for “Rinsing” program, make an additional rinsing or eliminate the stains After drying with the help of a brush.
There are grey stains on the clothes.	These stains may be caused by oil, cream or ointment.	In the next washing operation, use the maximum detergent amount declared by the detergent producer.
The spinning process is not done or starts with delay.	No failure. The unbalanced load control works in that way.	The unbalanced load control system will try to distribute clothes in a homogenous manner. After clothes are distributed, passage to spinning process will be realized. In the next washing process, place clothes into the machine in a well-balanced manner.

7. Disassembly and Assembly Instructions

7.1. Top Plate

1. Remove two screws that fix the top-plate at the back.

2. Push the top-plate back and pull it up.



2. Pull the door up.

3. Remove screws that fix the door group.

7.2. Door

1. Remove two screws that fix the door. (by using the T25)

T25

4. Put the door outside plastic with helping screwdriver as it is shown in the picture.

5. Remove the door inside plastic as it is shown in the picture.

6. Remove six screws that fix the door hinge as it is shown in the picture.

7. Remove the door handle as it is shown in the picture.

8. Remove the door handle pim as it is shown in the picture.

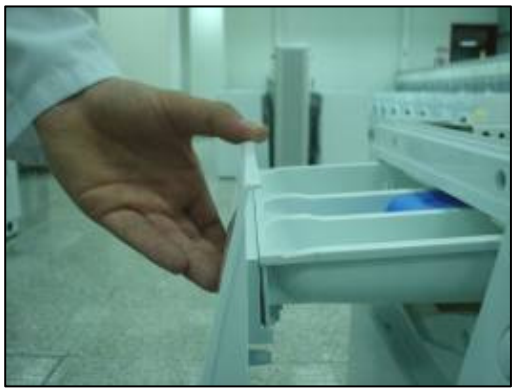
7.3. Tub Bellows Seal

1. First remove the spring wire fixing the tub bellows seal by using the small size screw driver.
   Pull the tub bellows seal as it is shown in the picture.

2. Remove the tub bellows seal-body fixing spring.

7.4. Detergent Drawer

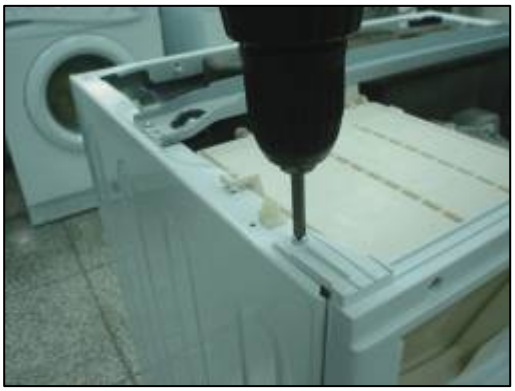
1. Remove the detergent drawer and pull it up carefully



7.5. Control Panel

1. Remove the screw which fix the control panel to the front panel.

2. Remove three screws fixing the control panel.



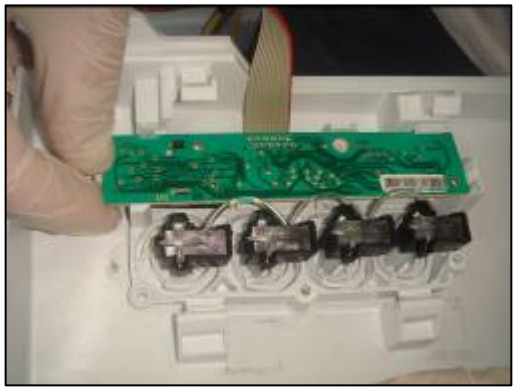
3. Pull the control panel up.

4. Remove connectors as it is shown in the picture.

5. Remove the lcd communication cable as it is shown in the picture.

6. Remove electronic card cover as it is shown in the picture by using small screw driver.

7. Remove lcd electronic card as it is shown in the picture.



7.6. Kick Plate

1. Remove the right part of the kickplate as it is shown in the picture.

2. Remove two screws fixing the kickplate.

3. Pull the kickplate left and push it down.

7.7. Front Panel

1. Remove two screws fixing the front panel at the bottom as it is shown in the picture by using T25

2. Remove two screws fixing the door lock as it is shown in the pictures.

3. Remove the tub bellows seal as it is shown in the pictures.

4. Remove two screws fixing front panel at the upper as it is shown in the picture.

5. Remove two screws fixing front panel at the below as it is shown in the picture.

6. Remove the front panel as it is shown in the pictures.

7.8. Upper Support Bracket

1. Remove two screws fixing the body group at the front as it is shown in the picture.

2. Remove two screws fixing the body group at the upper as it is shown in the picture.

3. Remove detergent drawer group two clips fixing the upper support bracket as it is shown in the picture.

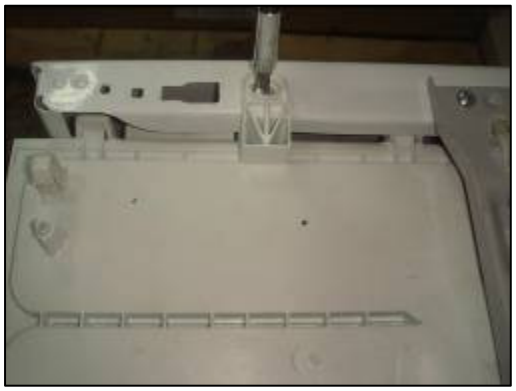
7.9. Detergent Drawer Housing

1. Remove the tub seal clamp by using the pliers, which is attached to the detergent drawer housing.

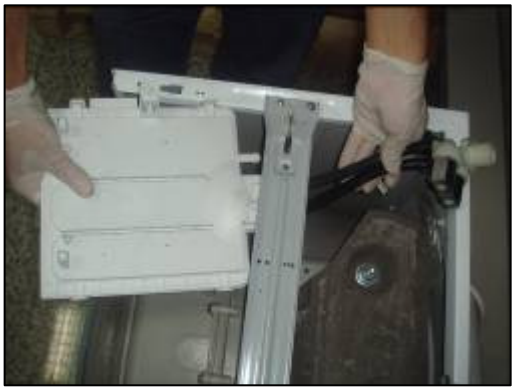
2. Remove the four connectors that is connected to the feed valve as it is shown in the picture.

3. Turn the feed valve counter clockwise slightly to remove.

4. Remove the detergent drawer screw.



5. Remove the detergent drawer housing assembly.



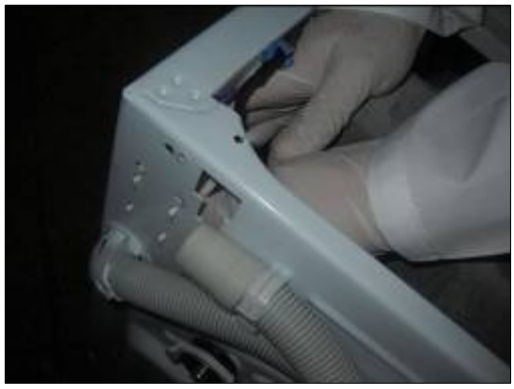
2. Remove two screws fixing the parasite filter.

3. Pull the power cable group up as it is shown in the picture.

7.10. Power Cable Group and Parazit Filter

1. Remove the five conectors that is connected to the parasite filter.

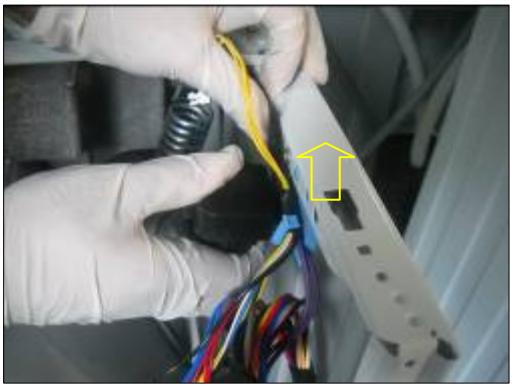
4. Remove parasite fitler fixing body group as it is shown in the picture.



7.11. Electronic Pressure Switch (EPS)

1. Remove the connector that is connected to the EPS.

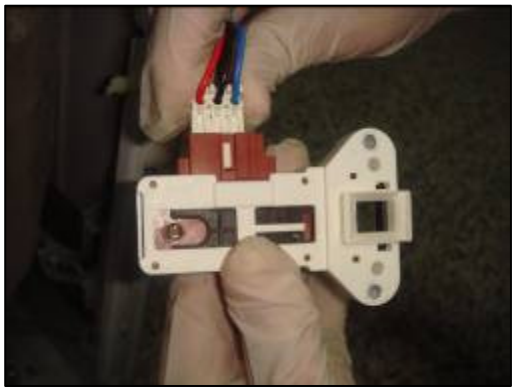
2. Pull the EPS upward to remove as it is shown in the picture.



3. Remove the eps hose handcuffs and eps hose as it is shown in the picture.

7.12. Door Lock

1. Remove the connector that is connected to the door lock.



7.13. Pump Motor

1. Remove pipe clip that fixes the drain hose.

2. Remove pipe clip fixing the tub outlet hose.

3. Remove the connector that is connected to the pump motor.

4. Remove four screws fixing the pump motor.

7.14. Front Counterweight

1. Remove four screws fixing the front counterweight on the front. (Box wrench size 13 mm)

2. Pull the counterweight back

7.15. Heater

1. Remove the four connectors that is connected to the heater.

2. Remove one nut fixing the heater slightly (box wrench size 8 mm)

3. Hold the heater and pull it out.

7.16. Tub Bellows Seal

1. Remove the tub gasket clip by using small screwdriver.

2. Hold the tub bellows seal and gasket-body fixing spring together, and pull them up.

7.17. Transport Screw

1. Remove four transport screws (box wrench size 10 mm)

2. Hold the transport screw and pull it out.

7.18. Upper Counterweight

1. Remove two screws fixing the upper counterweight by using box wrench size 13 mm.

2. Remove the upper counterweight

2. Cut the five lead wire holders as shown the pictures.

a)

b)

c)

d)

3. Remove the four screws fixing the spring hanger sheet iron.

7.19. Washing Group

1. Remove the connector that is connected to the motor.

4. Remove the washing group as it is shown in the picture.

7.20. Shock Absorber PIN

1. Remove two pins fixing the shock absorber as shown in the picture.

7.21. Belt

1. Remove the belt as it is shown the picture.

7.22. Driven Pulley

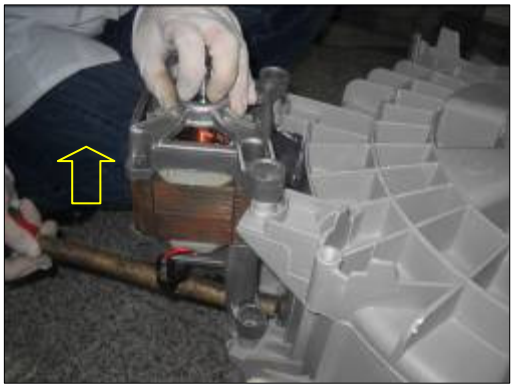
1. Remove the screw fixing driven pulley it is shown the picture (By using T40).

2. Remove the driven pulley it is shown the picture.

7.23. Motor

1. Remove the four screws fastening the motor under the tub by using T40

2. Pull the motor up for disassembly.



7.24. Tub Entrance with Bellow Hose

1. Remove the tub entrerance with bellow hose.

7.25. Pressure Switch Hose Group

1. Remove screw fixing the pressure switch water reservoir.

2. Remove the tub exit with bellow hose with ball by using box wrench size 10 mm.

7.26. Tub

1. Remove twenty four screws fixing tub using box wrench size 8 mm.

7.27. Drum

1. Remove the drum.

8. Component Specifications

8.1. Drain Pump

Drain pump is both a mechanical and elektrical component which is used to drain water inside the washing machine. It has an synchronous motor inside. For better performance maintanance, pump filter should be cleaned regularly.

8.1.1. Technical Features

Nominal voltage	220 - 240 V
Nominal current	0.28 A (±10 %)
Nominal power	37 W
Frequency	50 Hz
Resistor (coil)	130 Ω (±5%)
Water flow:	17 L/min(to 1 m height)
Thermal protector	YES

8.1.2. Checking of Component

Check the resistance value on the component with multimeter as shown in belows figures.

Resistance value should be between 125- 140 Ω

Checking the component

8.2. Resistance

Heating element (Resistance) is a component which is desingned to regulate temperature of water inside the drum. It has three connections: Phase, notral and ground connections.

8.2.1. Technical Features

Kind of heating	Tubular heating element with NTC – sensor
Nominal voltage	230 V
Nominal power	2000 W (±5%)
Resistance	24,8 ±5% Ω (for NA-127VB3 and NA-147VB3)
Thermal fuse	2 – sided

8.2.2. Checking of Component

Check the resistance value on the component with multimeter as shown in below pictures.

Checking the component

8.3. NTC

Component which sends signals to PCB about the water temperature inside the tub.

The Resistance (Ohm) value of the NTC decreases as the temperature increases.

8.3.1. Technical Features

Tem (℃)	R min (kΩ)	R max (kΩ)
-10	54,9	62,6
-5	43,0	48,6
0	33,9	38,1
5	27,0	30,1
10	21,6	23,9
15	17,4	19,1
20	14,1	15,4
25	11,5	12,5
30	9,4	10,2
35	7,8	8,3
40	6,4	6,9
45	5,4	5,7
50	4,5	4,7
55	3,8	3,9
60	3,2	3,3
65	2,7	2,8
70	2,3	2,4
75	1,9	2,0
80	1,7	1,8
85	1,4	1,5
90	1,2	1,3
95	1,1	1,1
100	0,9	1,0

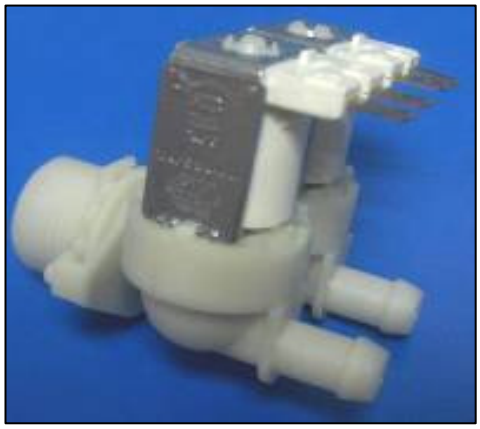
NTC Tempure – Resistance Values

8.3.2. Checking of Component

Check the resistance value on the component with multimeter as shown in below pictures.

Checking the component

8.4. Valve



Valve is an electrical and mechanical component which is designed to take water from the network system into the washine machine. It is operated by PCB card.

8.4.1. Technical Features

Nominal voltage	220 – 240 V
Nominal power	8 VA
Frequency	50-60 Hz
Rated flow:	7 lt/min (±15 %)
Operating water pressure	0.0,3 – 1 Mpa

8.4.2. Checking of Component

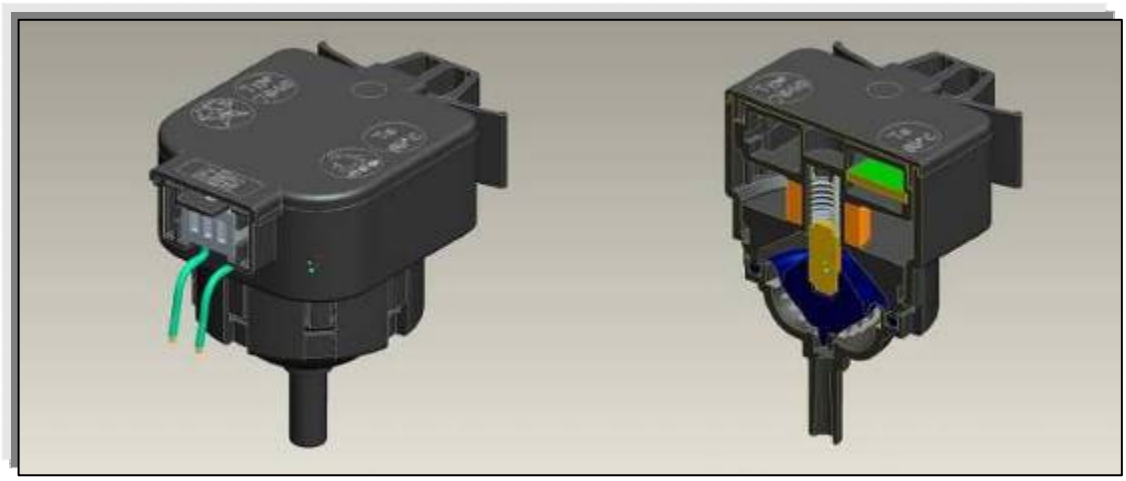
Check the resistance value on the component with multimeter as shown in below pictures.

Valve water flow rate should be between 6 lt/min - 8 lt/min.

Each valve bobbin resistance values should be between 3,3 - 4.2 kohm .

Checking the component

8.5. Electronic Pressure Switch (EPS)



8.5.1. Technical Features

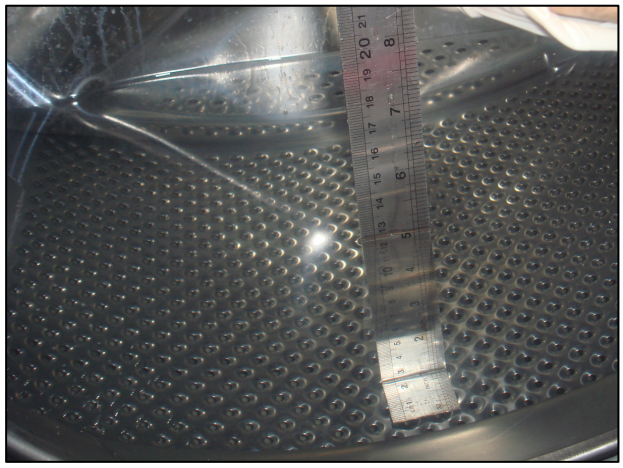
Electromagnetic field occurs as a result of the vibration of the membrane which is under pressure in the coil. The nucleus part is moved up and down by the electromagnetic field. The water level is regulated by the frequency which is controlled by the PCB and changes according to the movement of the nucleus part.

8.5.2. Checking of Component

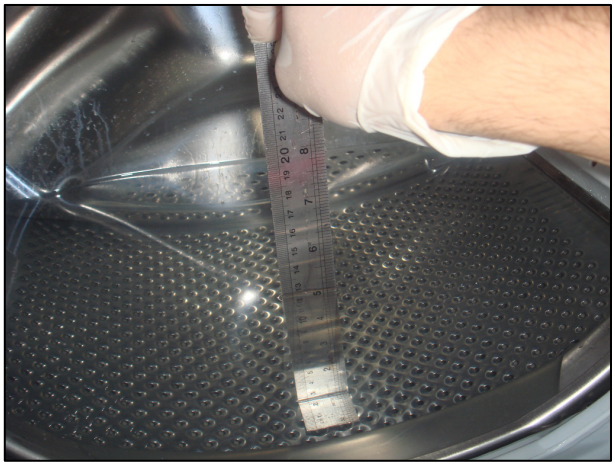
1. Push the door lock slider with screwdriver.

5. Select the 1st program and start the machine.

6. Cut off the energy input when the water intake finishes and drum begins to rotate.



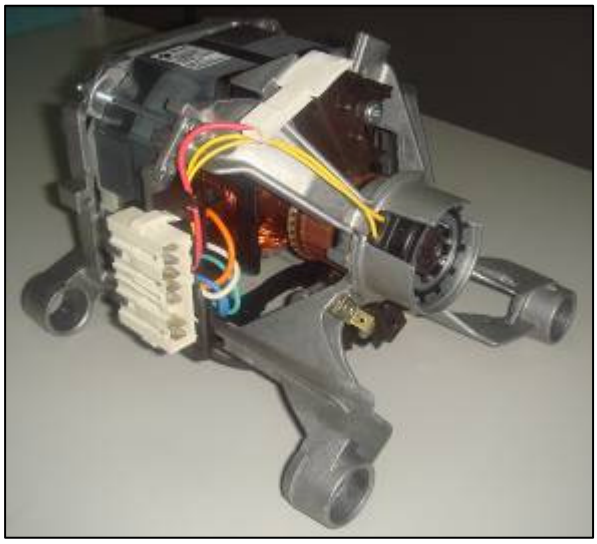
7. Check the water level inside the drum with ruler. It should be 10 cm ±1.

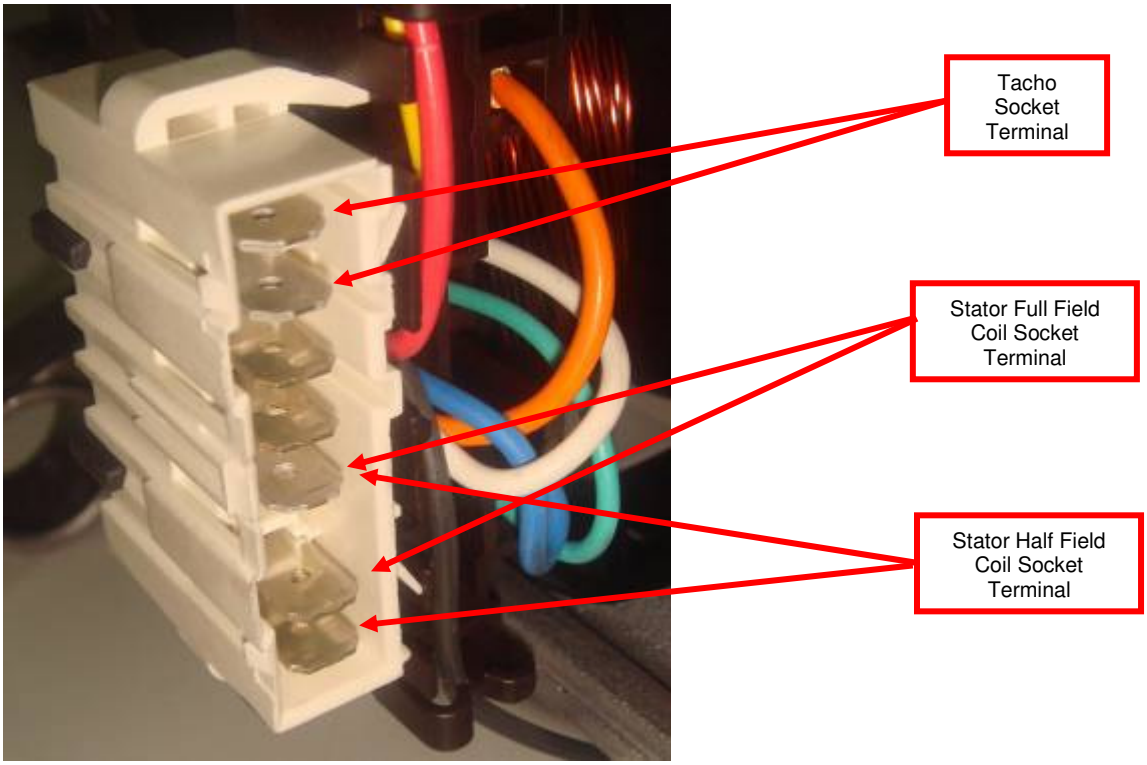


8.6. Motor

The washing machine has an asynchronous motor. It is controlled by the PCB.

It is essential to check the motor for correct diagnosis and quick servicing. In the below picture, socket points on the motor is shown to measure with multimeter.





Motor Socket Terminals

Tacho and stator (full field-half field) ohm resistance values for the motor types are listed in the below table.

MOTOR KODU	FİRMA	STATOR (TAM SARGI) (ohm)	TAKO (ohm)	STATOR (YARIM SARGI) (ohm)	SICAKLIK
32003986	ACC	3.30-/+ 7%	184-/+7%	1.20-/+7%	20 ℃
32004905	ACC	2.70-/+ 7%	184-/+7%	1.04-/+7%	20 ℃
32006966	ACC	3.00-/+ 7%	184-/+7%	1.50-/+7%	20 ℃
32007450	ACC	2.70-/+ 7%	184-/+7%	1.08-/+7%	20 ℃
32004572	ACC	1.20-/+ 7%	184-/+7%	0.60-/+7%	20 ℃
32008809	ACC	0.96-/+ 7%	184-/+7%	-	20 ℃
30027193	ANAIMEP	1.87-/+7%	180-/+10%	-	20 ℃
30023397	ANAIMEP	1.75-/+7%	180-/+10%	-	20 ℃
32002064	ANAIMEP	2.01-/+7%	180-/+7%	-	20 ℃
32003425	ANAIMEP	2.01-/+7%	180-/+7%	-	20 ℃
32000536	ASKOLL (CESET)	1.01-/+7%	68.7-/+7%	-	20 ℃
32000271	ASKOLL (CESET)	1.40-/+7%	68.7-/+7%	0.56-/+7%	20 ℃
32000535	ASKOLL (CESET)	1.24-/+7%	68.7-/+7%	-	20 ℃
30027193	ASKOLL (CESET)	2.26-/+7%	68.7-/+7%	-	20 ℃
32008661	ASKOLL (CESET)	1.90-/+7%	68.7-/+7%	0.74-/+7%	20 ℃
30023397	ASKOLL (CESET)	1.83-/+7%	68.7-/+7%	-	20 ℃
32004970	ATB	1.62-/+ 7%	87-/+12%	-	20 ℃
32004969	ATB	1.62-/+ 7%	87-/+12%	0.81-/+7%	20 ℃
32009041	ATB	1.62-/+ 7%	87-/+12%	0.81-/+7%	20 ℃
32004968	ATB	1.20-/+ 7%	87-/+12%	-	20 ℃
32009040	ATB	1.20-/+ 7%	87-/+12%	-	20 ℃
32008659	BROAD OCEAN	2.15-/+7%	66.7-/+7%	-	20 ℃
32008660	BROAD OCEAN	2.15-/+7%	66.7-/+7%	-	20 ℃
32005496	IDEA	4.60-/+7%	227-/+7%	-	20 ℃
32007954	WELLING	2.08-/+7%	66.6-/+7%	-	20 ℃
32007955	WELLING	1.59-/+7%	66.6-/+7%	-	20 ℃
32008852	WELLING	2.00-/+7%	66.6-/+7%	-	20 ℃
32008853	WELLING	2.15-/+7%	66.6-/+7%	-	20 ℃

Resistance values for the motor types

8.7. Door Lock

Door lock is activated at the beginning of the program in order to prevent the door from opening. It can be unlocked approximately after 2 minutes of the program end. This time delay is caused by the PTC which is assambled in the door lock.

8.7.1. Technical Features

Lock Time (20 °C)	2" – 6"
Unlock Time (20 °C)	35" – 75"
Nominal voltage	220 V
Nominal current	16 (4) A

8.7.2. Checking of Component

Check the resistance value on the component with multi-meter as shown in below figures.
Resistance value on the PTC should be 1000 Ω ±50% at 25 °C. That resistance value can be measured from terminal 3-4 (See wiring diagram page 51 below).

9. Wiring Diagram

9.1. Wiring Diagram